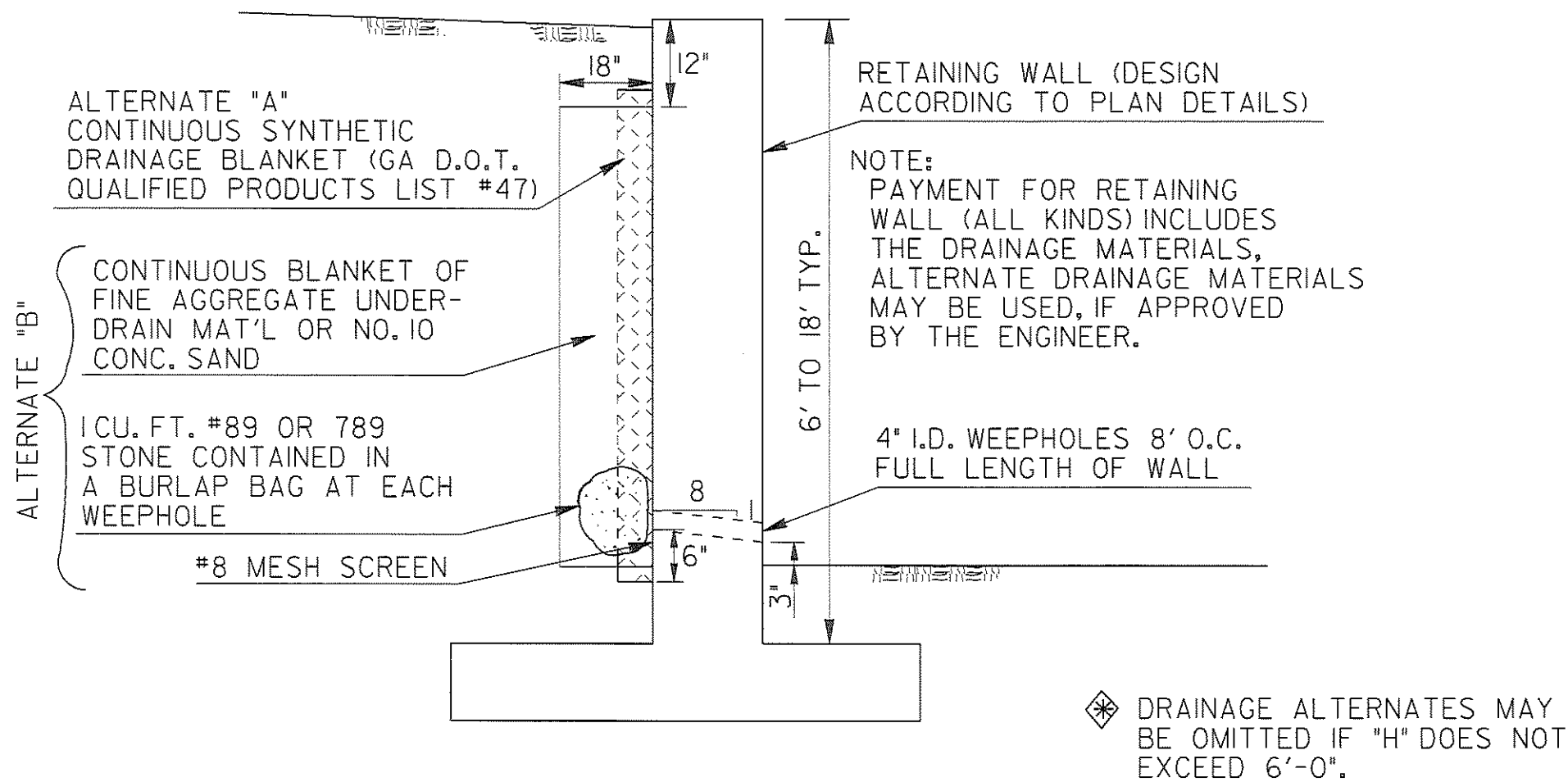
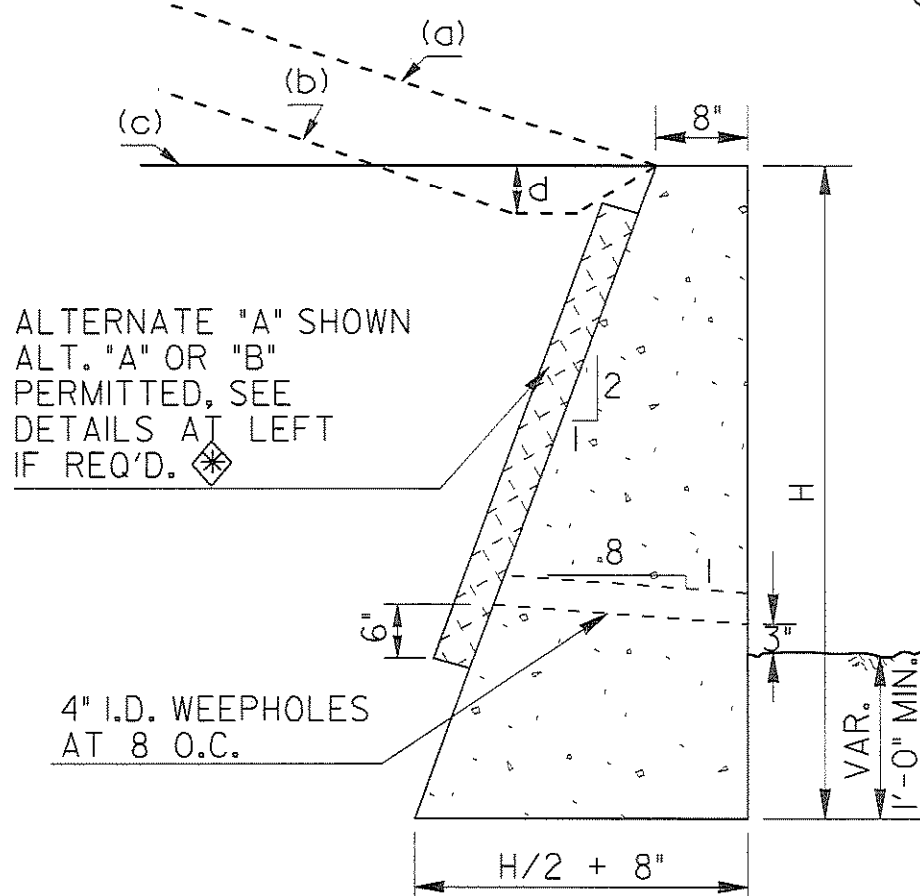


- (d) - SLOPED BACKFILL, NO DITCH
- (b) - SLOPED BACKFILL WITH DITCH
- (c) - FLAT BACKFILL

d = DITCH DEPTH, 6'-12" TYPICAL
SEE PLANS FOR DESIGN



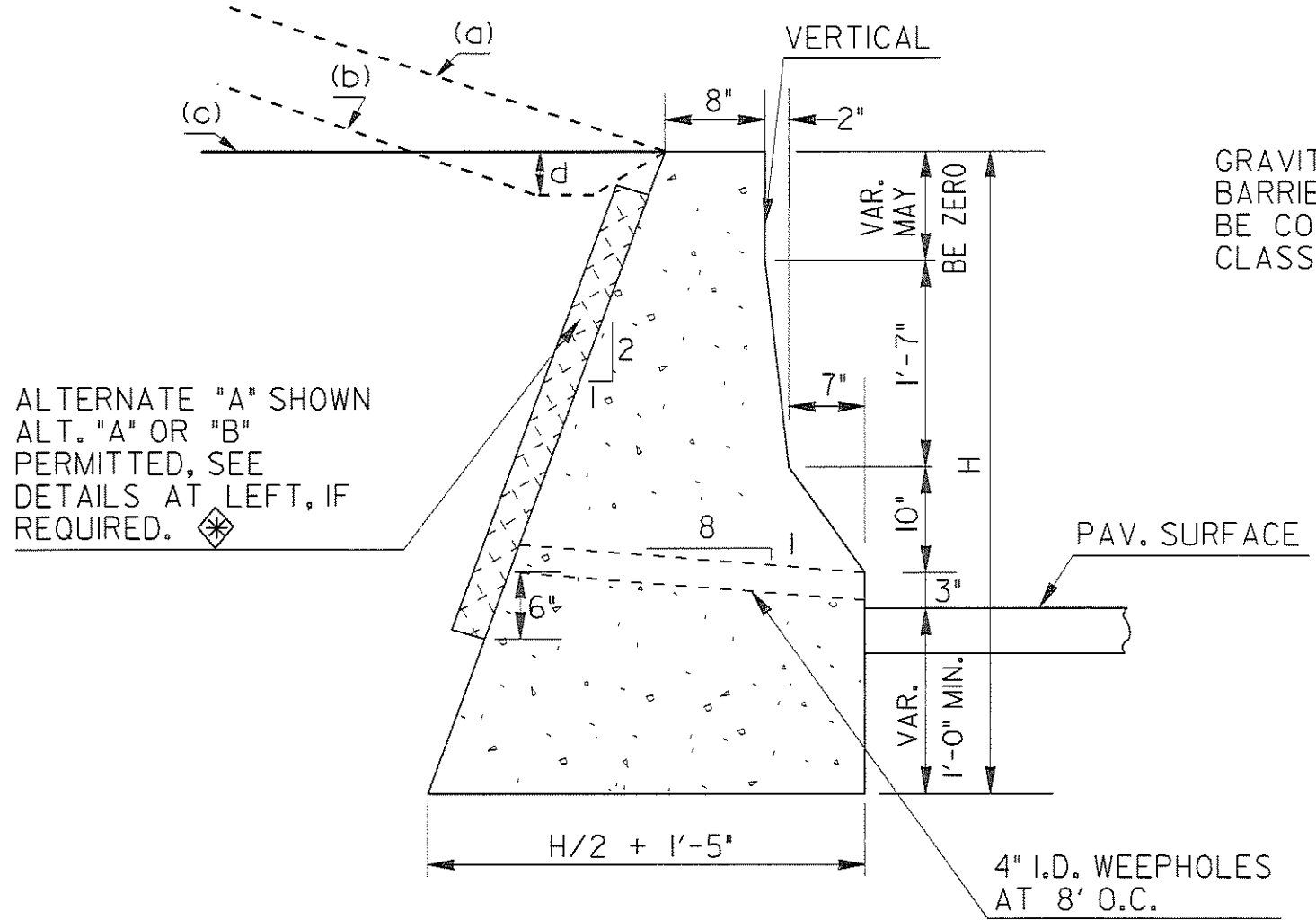
STANDARD DRAINAGE FOR RETAINING WALLS
(FOR HEIGHTS FROM 6 FT. TO 18 FT.- SPECIAL DESIGN DRAINAGE
REQUIRED FOR RETAINING WALLS OVER 18 FT. IN HEIGHT.)



TYPICAL SECTION FOR GRAVITY TYPE WALL
MATERIALS: CLASS "B" CONC. OR MORTAR RUBBLE MASONRY.

MAXIMUM "H" *		
BACKFILL	PLAIN WALL	W.BARRIER FACE
FLAT	10'-0" **	10'-0"
SLOPE TO 4:1	6'-3"	7'-0"
SLOPE TO 2:1	4'-6"	4'-9"

* GREATER "H" PERMITTED IF APPROVED BY BRIDGE DESIGN.
** MAXIMUM "H" OF 7'-3" HERE IF TRAFFIC IS ON BACKFILL.



TYPICAL SECTION FOR GRAVITY WALL WITH BARRIER FACE

Diagram illustrating the steel layout for a raised headwall.

Key dimensions and components shown:

- Width: 10'
- Height: 12" MAX.
- Reinforcement: 3/8" DIA. BAR
- Dowel Bars: 5/8" DIA. DOWEL BARS 18" LONG
- Top View Dimensions: APPROX. 12" (width), APPROX. 12" (depth), 4" (depth)
- Top View Label: -TOP-

NOTE: FOR STRUCTURES WITH WINGWALLS, THE WINGS SHALL BE RAISED THE SAME AMOUNT AS THE HEADWALL, UNLESS SPECIFIED OTHERWISE.

SECTION

NOTE: PLAN PAY QUANTITIES ARE TO REFLECT PIPE PLUGS AS CU. YDS. OF CL. A OR CL. B CONCRETE. ON CONSTRUCTION PLUGS MAY BE BUILT WITH BRICK MASONRY, MORTAR RUBBLE MASONRY, CL. A CONC., OR CL. B CONC. WITH NO ADJUSTMENT IN PAYMENT MADE FOR ALTERNATES.

D	T (MIN)	PIPE PLUG (CU. YDS.)
12"	8"	0.0194
15"	8"	0.0303
18"	8"	0.0436
24"	8"	0.0776
30"	8"	0.1212
36"	8"	0.1745
42"	8"	0.2376
48"	8"	0.3103
54"	12"	0.5890
60"	12"	0.7272
66"	12"	0.8799
72"	12"	1.0472

6-30-98		DATE		DEPARTMENT OF TRANSPORTATION	
4-30-84				STATE OF GEORGIA	
2-15-83					
REDRAWN	ADD PIPE PLUG DETAILS	RET. WALL	"H" TABLE ADDED	REVISION	
<p style="text-align: center;">STANDARD</p> <p style="text-align: center;">RETAINING WALL TYPICAL SECTIONS, RAISING HEADWALL, AND TYPICAL PIPE PLUG.</p>					
NO SCALE:				REV. & REDR. DECEMBER, 1982	
C.J.P.	R.M.U.	BY	REV. & R.M.U. REDR.	(SUBMITTED)	NUMBER
R.M.U.	R.M.U.	TRA.	C.M.E.	STATE ROAD & AIRPORT DESIGN ENGR.	9031L
		CHK.	R.K.C.	(APPROVED)	SHEET 1 OF 2
				STATE HIGHWAY ENGINEER	